

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Declaration and Power of Attorney For Patent Application

特許出願宣言書

Japanese Language Declaration

私は、下欄に氏名を記載した発明者として、以下の通り宣言する： As a below named inventor, I hereby declare that:

私の住所、郵便の宛先及び国籍は、下欄に氏名に続いて記載した通りであり、 My residence, post office address and citizenship are as stated below next to my name.

名称の発明に関し、請求の範囲に記載した特許を求める主題の本来の、最初にして唯一の発明者である（一人の氏名のみが下欄に記載されている場合）か、若しくは本来の、最初にして共同の発明者である（複数の氏名が下欄に記載されている場合）と信じ、 I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

耐摩耗鋼及び鋼製織機部材

AN ABRASION-RESISTANT STEEL AND A WEAVING MACHINE MEMBER MADE OF AN ABRASION-RESISTANT STEEL

その明細書を

the specification of which

（該当する方に印を付す）

(check one)

☒ここに添付する。

☒ is attached hereto

☐ _____ 日に 出願番号

☐ was filed on _____ as

第 _____ 号として提出し、

Application Serial No. _____

_____ 日に補正した。

and was amended on _____

（該当する場合）

(if applicable)

私は、前記のとおり補正した請求の範囲を含む前記明細書の内容を検討し、理解したことを陳述する。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37部第1章第56条(a)項に従い、本願の審査に所要の情報を開示すべき義務を有することを認める。

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a)

COPY

Japanese Language Declaration

私は、合衆国法典第35部第119条に基づく下記の外国特許出願又は発明者証出願の外国優先権利益を主張し、更に優先権の主張に係わる基礎出願の出願日前の出願日を有する外国特許出願又は発明者証出願を以下に明記する：

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior foreign applications

先の外国出願		
10-366296	JAPAN	24.12.1998
(Number)	(Country)	(Day/Month/Year Filed)
(番号)	(国名)	(出願の年月日)
10-366297	JAPAN	24.12.1998
(Number)	(Country)	(Day/Month/Year Filed)
(番号)	(国名)	(出願の年月日)

Priority Claimed

優先権の主張	
<input checked="" type="checkbox"/> <input type="checkbox"/>	
Yes No	
あり なし	
<input checked="" type="checkbox"/> <input type="checkbox"/>	
Yes No	
あり なし	

私は、合衆国法典第35部第120条に基づく下記の合衆国特許出願の利益を主張し、本願の請求の範囲各項に記載の主題が合衆国法典第35部第112条第1項に規定の態様で先の合衆国出願に開示されていない限度において、先の出願の出願日と本願の国内出願日又はPCT国際出願日の間に公表された連邦規則法典第37部第1章第56条(a)項に記載の所要の情報を開示すべき義務を有することを認める：

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(現況)	(Status)
(出願番号)	(出願日)	(特許済み、係属中、放棄済み)	(patented, pending, abandoned)

私は、ここに自己の知識に基づいて行った陳述が全て真実であり、自己の有する情報及び信ずるところに従って行った陳述が真実であると信じ、更に故意に虚偽の陳述等を行った場合、合衆国法典第18部第1001条により、罰金又は禁固に処せられるか、又はこれらの刑が併科され、またかかる故意による虚偽の陳述が本願ないし本願に対して付与せられる特許の有効性を損なうことがあることを認識して、以上の陳述を行ったことを宣言する。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issue thereon.

Japanese Language Declaration

委任状：私は、下記発明者として、以下の代理人をここに選任し、本願の手続きを遂行すること並びにこれに関する一切の行為を特許商標庁に対して行うことを委任する。

(代理人氏名及び登録番号を明記のこと)

William H. Logsdon	22,132	Barbara E. Johnson	31,918	Lester N. Fortney	38,141
Russell D. Orkin	25,363	Paul M. Reznick	33,059	Randall A. Notzen	36,882
David C. Hanson	23,024	John W. McIlvaine	34,219	Jesse A. Hirshman	40,016
Frederick B. Ziesenheim	19,438	Michael I. Shamos	30,424	James G. Porcelli	33,757
Richard L. Byrne	28,498	Blynn L. Shideler	35,034	Kent E. Baldauf, Jr.	36,082
Kent E. Baldauf	25,826	Julie W. Meder	36,216		

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

書類の送付先

Send Correspondence to:

Russell D. Orkin Esq.
700 Koppers Building
436 Seventh Avenue
Pittsburgh, PA 15219-1818

直通電話連絡先 (名称及び電話番号)

Direct Telephone Calls to: (name and telephone number)

Russell D. Orkin 412-471-8815

唯一の又は第一の発明者の氏名 伊東 建次郎	Full name of sole or first inventor Kenjiro ITO
同発明者の署名 伊東 建次郎	Inventor's signature Kenjiro Ito
日付	Date 10.12.1999
住所 山口県新南陽市野村南町 4976 番地 日新製鋼株式会社 技術研究所内	Residence: c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanyo-shi, Yamaguchi-ken, 746-0023 Japan
国籍 日本	Citizenship: Japan
郵便の宛先 山口県新南陽市野村南町 4976 番地 日新製鋼株式会社 技術研究所内	Post Office Address: c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanyo-shi, Yamaguchi-ken, 746-0023 Japan

(第二又はそれ以降の共同発明者に対しても同様な情報及び署名を提供すること)

(Supply similar information and signature for second and subsequent joint inventors.)

第二の共同発明者の氏名 (該当する場合) 末次 輝彦	Full name of second joint inventor, if any Teruhiko SUETSUGU
同第二発明者の署名 末次 輝彦	Inventor's signature Date 10.12.1999 Teruhiko Suetsugu
住所 山口県新南陽市野村南町 4976 番地 日新製鋼株式会社 技術研究所内	Residence: c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanyo-shi, Yamaguchi-ken, 746-0023 Japan
国籍 日本	Citizenship: Japan
郵便の宛先 山口県新南陽市野村南町 4976 番地 日新製鋼株式会社 技術研究所内	Post Office Address: c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanyo-shi, Yamaguchi-ken, 746-0023 Japan
第三の共同発明者の氏名 (該当する場合) 森川 広	Full name of third joint inventor, if any Hiroshi MORIKAWA
同第三発明者の署名 森川 広	Inventor's signature Date 10.12.1999 Hiroshi Morikawa
住所 山口県新南陽市野村南町 4976 番地 日新製鋼株式会社 技術研究所内	Residence: c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanyo-shi, Yamaguchi-ken, 746-0023 Japan
国籍 日本	Citizenship: Japan
郵便の宛先 山口県新南陽市野村南町 4976 番地 日新製鋼株式会社 技術研究所内	Post Office Address: c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanyo-shi, Yamaguchi-ken, 746-0023 Japan

第四の共同発明者の氏名 (該当する場合) 山内 隆	Full name of second joint inventor, if any Takashi YAMAUCHI
同第四発明者の署名 山内 隆	Inventor's signature Takashi Yamauchi Date 10.12.1999
住所 山口県新南陽市野村南町 4976 番地 日新製鋼株式会社 技術研究所内	Residence: c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanyo-shi, Yamaguchi-ken, 746-0023 Japan
国籍 日本	Citizenship: Japan
郵便の宛先 山口県新南陽市野村南町 4976 番地 日新製鋼株式会社 技術研究所内	Post Office Address: c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanyo-shi, Yamaguchi-ken, 746-0023 Japan
第五の共同発明者の氏名 (該当する場合)	Full name of third joint inventor, if any
同第五発明者の署名 日付	Inventor's signature Date
住所	Residence:
国籍 日本	Citizenship: Japan
郵便の宛先	Post Office Address: Japan

ASSIGNMENT DEED

This assignment is applicable to an invention entitled (Invention Title) AN ABRASION-RESISTANT STEEL AND A WEAVING MACHINE MEMBER MADE OF AN ABRASION-RESISTANT STEEL.

The PATENT RIGHTS referred to in this agreement are:

(check one) ☒ a patent application for this invention, executed by the ASSIGNOR(S) concurrently with this agreement.

☐ U.S. patent application Serial No. _____, issued _____.

☐ a U.S. patent application based on PCT International Application No. _____ filed on (date) _____ (U.S. patent application serial No. _____, if known).

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

(check one) ☒ U.S. patent rights only.

☐ worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. patent application identified above.

The ASSIGNOR(S) referred to in this agreement is (or are):

(Full name of sole or first inventor) Kenjiro ITO

(Address) c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanvo-shi, Yamaguchi-ken, 746-0023 Japan

(Full name of second joint inventor, if any) Teruhiko SUETSUGU

(Address) c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanvo-shi, Yamaguchi-ken, 746-0023 Japan

(Full name of third joint inventor, if any) Hiroshi MORIKAWA

(Address) c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanvo-shi, Yamaguchi-ken, 746-0023 Japan

(Full name of fourth joint inventor, if any) Takashi YAMAUCHI

(Address) c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 4976, Nomuraminami-machi, Shin-Nanvo-shi, Yamaguchi-ken, 746-0023 Japan

The ASSIGNEES referred to in this agreement are:

I. (Name of First Assignee) Nisshin Steel Co., Ltd.

(Address of Assignee) 4-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-8366 Japan

The first ASSIGNEE is:

(check one) ☐ An individual.

☐ A Partnership.

☒ A Corporation of Japan

(state or country)

The ASSIGNOR(S), in consideration of \$1.00 paid by the ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, have and do hereby assign the following rights to the ASSIGNEE, its successors and assigns:

the full and exclusive right to the invention;

the entire right, title and interest in and to the PATENT RIGHTS;

the right to sue and recover for any past infringement; and

the right to claim priority under 35 USC 119, based on earlier foreign applications for this invention.

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, re-examination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

Kenjiro Ito
(Signature of sole or first inventor)

10.12.1999
(Date)

Teruhiko Suetsugu
(Signature of second inventor)

10.12.1999
(Date)

Hiroshi Morikawa
(Signature of third first inventor)

10.12.1999
(Date)

Takashi Yamauchi
(Signature of fourth inventor)

10.12.1999
(Date)



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

AUGUST 29, 2000

PTAS

WEBB-ZIESENHEIM LOGSDON ORKIN & ET AL
RUSSELL D. ORKIN
700 KOPPERS BUILDING
436 SEVENTH AVENUE
PITTSBURGH, PA 15219-1818



101432470A

10955 U.S. PTO
09/996649
11/28/01

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/19/2000

REEL/FRAME: 010900/0237
NUMBER OF PAGES: 4

BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNEE ADDRESS, FILED ON 12-23-99, RECORDED ON REEL 10467 FRAME 0158 ASSIGNOR HEREBY CONFIRMS THE ASSIGNMENT OF THE ENTIRE INTEREST.

ASSIGNOR:

ITO, KENJIRO

DOC DATE: 12/10/1999

ASSIGNOR:

SUETSUGU, TERUHIKO

DOC DATE: 12/10/1999

ASSIGNOR:

MORIKAWA, HIROSHI

DOC DATE: 12/10/1999

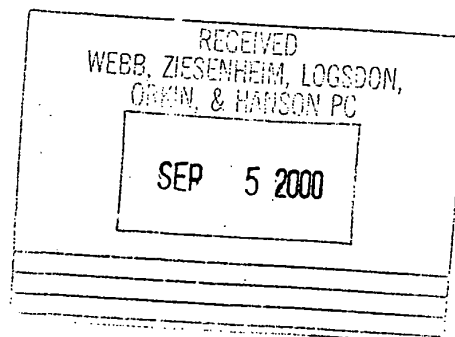
ASSIGNOR:

YAMAUCHI, TAKASHI

DOC DATE: 12/10/1999

ASSIGNEE:

NISSHIN STEEL CO., LTD.
4-1. MARUNOUCHI 3-CHOME
CHIYODA-KU, TOKYO 100-8366, JAPAN



COPY

FILING DATE: 12/23/1999
ISSUE DATE:

[illegible]